

CLAIMS

1. A synthetic resin bottle with a grip, wherein a bottle main body (1) including a substantially cylindrical trunk portion (2) is formed with a concave region (3) at a rear part of the trunk portion (2), and a grip (10) is assembled and fixed in an upright orientation to a center position of the concave region (3) at a rear surface side of the bottle main body (1): wherein a shoulder portion (8) in the bottle main body (1) has a lower circumferential wall with a truncated pyramid shape defined by a plurality of panels (31) including a rear surface panel (31c); wherein a right/left center axis of the rear surface panel (31c) is placed at substantially the center of the rear surface of the bottle main body (1); and wherein a center portion of each of the panels (31) is formed as a protrusion having a convex shape gradually bulging outwards of the bottle main body (1).
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2. The synthetic resin bottle according to claim 1, wherein even-numbered panels (31) are symmetrically arranged on a front half side of the bottle main body (1), and odd-numbered panels (31) are symmetrically arranged on a rear half side thereof.
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3. The synthetic resin bottle according to claim 2, wherein four panels (31) are symmetrically arranged on the front half side of the bottle main body (1), and five panels (31) are symmetrically arranged on the rear half side of the same.
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4. The synthetic resin bottle according to claim 1, 2 or 3, wherein the protrusion at the center portion of the panel (31) has a height of 0.2 to 2 mm.
5. The synthetic resin bottle according to claim 1, 2, 3 or 4, wherein the bottle main body (1) has a shape in which a vertical protrusion (5) is provided at a center portion of a concave bottom surface (4) of the concave region (3), the grip (10) is formed into a shape in which a grip plate (11) is integrally provided between upper and lower ends of a pair of assembled beam pieces (12) arranged in an upright orientation in parallel with each other, and a fitting protrusion (K) serving as a rigidly assembled portion having an undercut shape with respect to the concave bottom surface (4) of the bottle main body (1) is provided to each of the pair of assembled beam pieces (12), and a part of the assembled beam piece (12) and the fitting protrusion (K) constitute an insert portion with respect to the part of the concave bottom surface (4) close to the vertical protrusion (5) of the bottle main body (1).
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6. The synthetic resin bottle according to claim 5, wherein a fitting projection (17) with a substantially right-angled-triangular cross-section is provided to the fitting protrusion (K) in the vicinity of a corner portion formed by an opposing side surface (14a) and an end surface (13) of each of the pair of assembled beam pieces (12) so that one of the sides forming a right angle substantially vertically protrudes from the opposing side surface (14a) and the other side substantially vertically protrudes from the end surface (13).